REPORT OF ANALYSIS
PANAMA LABORATORY
OGC LAB TEST: LT – 1561 – 16

LE No. 029

SGS is the world's leading Inspection, Verification, Testing and Certification Company

CLIENT: CHEVRON PRODUCTS ANTILLES Ltd.

CONTACT: Mr. Basilio Calogianis K.

ADDRESS: Terminales de Combustibles de Panama, Bahía las Minas, Colon Rep. of Panama.

CLIENT REF.: N/A

SAMPLE ID: **PAN 1504574**
PRODUCT: **LOW SULFUR DIESEL OIL**
SOURCE: **SHORE TANK D 2129**
DATE OF SAMPLE: October 22nd, 2016.
SAMPLE DRAWN BY: SGS – OGC Panama.
DATE SAMPLE RECEIVED: October 22nd, 2016.

FACILITIES: **Terminales de Combustibles de Panama.**
JOB FILE: **OGC-16-13100**
WITNESSED BY: N/A
SEAL #: N/A
DATE SAMPLE TESTED: October 22nd, 2016.
DATE RESULT SENT: October 24th, 2016.

Job Description: Shore Tank D 2129 / Composite Sample / After Discharge MT"NAVE DORADO"

Tests Description	Methods	Units	Minimum	Maximum	Results
API Gravity@60°F	ASTM D 287	°API	32.0		34.9
*Appearance	ASTM D 4176	N/A	B&C		B&C
ASTM Color	ASTM D 1500	ASTM Scale		2.5	0.5
Water & Sediment	ASTM D 2709	Vol,%		0.05	0.00
Flash Point,PMCC	ASTM D 93A	°F	140		153.5
Sulfur Content	ASTM D 4294	% wt		0.05	0.022
Ash Content	ASTM D 482	% wt		0.01	L0.001
Conradson Carbon Residue, 10 % Bott	ASTM D 189	% wt		0.30	0.01
Copper Corrosion, 3Hrs at 100°C	ASTM D 130	Corrosiveness		2	1a
Kinematic Viscosity @40°C	ASTM D 445	cSt	1.9	4.1	2.921
Cetane Index	ASTM D 976	N/A	45		50
Distillation	ASTM D 86	°F	------	------	------
• 10% Recovered			Report	Report	417.9
• 50% Recovered				550	538.7
• 90% Recovered				640	581.9
• FBP				Report	617.0
• Residue				2.0	1.8
• Loss				2.0	0.2
*√Lubricity Test@60°C	√ASTM D 6079	µm		520	350

Form O-038-44 Jun 22, 2010

REMARKS: **Lote#: 1016LDO050 Volumen Total: 202,179.93 BBLS Volumen Disponible: 182,529.93 BBLS**
***Procedure 1: There is no water or particulates observed in the bottom of vortex**
***SCL (Sub-Contracted Lab) test are provided by: Camin Cargo Control Panama.**
√This method is not accredited by CAN

IMPORTANT NOTES: Results were based on analyses made at the time samples were received at the laboratory.
Precision parameters apply in the determination of the test results specified above.
Measurements of uncertainty to be provided upon request.
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